

For Research Use Only

# CHMP2B Polyclonal antibody

Catalog Number: 12527-1-AP

Featured Product

17 Publications



## Basic Information

### Catalog Number:

12527-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3222

### GenBank Accession Number:

BC001553

### GeneID (NCBI):

25978

### UNIPROT ID:

Q9UQN3

### Full Name:

chromatin modifying protein 2B

### Calculated MW:

24 kDa

### Observed MW:

32 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:200-1:800

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** NIH/3T3 cells, human heart tissue, mouse brain tissue, human ileum tissue, human kidney tissue, human placenta tissue, human brain tissue

**IHC:** mouse brain tissue, human brain tissue, human liver cancer tissue, human liver tissue

**IF/ICC:** HepG2 cells, PFA fixed cells

## Background Information

CHMP2B, chromatin-modifying protein 2b, also named CHMP2.5, VPS2B, and VPS2 2, belongs to the chromatin-modifying protein / charged multivesicular body protein (CHMP) family. It is a component of the endosomal sorting complex required for transport III (ESCRT-III), which involves in endosomal and autophagic trafficking of proteins to lysosomes for degradation. Mutations of CHMP2B lead to C-terminal truncation or are replaced with mis-splicing C-termini and cause frontotemporal lobar degeneration (FTLD). In CHMP2B mutation patients, p62- and ubiquitin-positive, but TDP-43 and FUS negative neural inclusions are formed, which may be caused by impaired lysosomal degradation through the autophagy and endosome-lysosome pathways.

## Notable Publications

| Author               | Pubmed ID | Journal                           | Application |
|----------------------|-----------|-----------------------------------|-------------|
| Kun Gao              | 29743530  | Cell Death Dis                    | IF          |
| Xiaokang Li          | 35235147  | J Cardiovasc Transl Res           | IHC         |
| Cristina Ballesteros | 29957332  | Int J Parasitol Drugs Drug Resist | WB          |

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

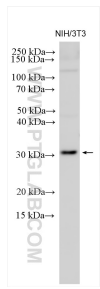
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



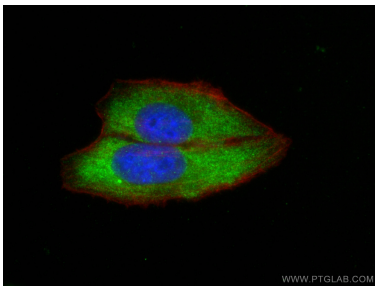
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 12527-1-AP (CHMP2B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12527-1-AP (CHMP2B antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12527-1-AP (CHMP2B antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CHMP2B antibody (12527-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).